

What is claimed is:

Subcl/

1 1. A method comprising:  
2 streaming at least two independent video sources  
3 for display on a video display screen; and  
4 causing said sources to be displayed at separate  
5 regions of said display screen.

1 2. The method of claim 1 including forming said  
2 sources into packets in a first device and transporting  
3 said packets to a second device.

1 3. The method of claim 2 including depacketizing  
2 said packets in said second device.

1 4. The method of claim 1 including transmitting said  
2 video sources from a processor-based system to a display  
3 device including said display screen.

1 5. The method of claim 4 including transmitting said  
2 video sources over a wireless connection between said  
3 processor-based system and said display device.

1 6. The method of claim 1, wherein said display  
2 screen includes a pixel array and a memory array,  
3 refreshing said memory array and said pixel array in the  
4 same refresh cycle.

1           7.    The method of claim 6 including displaying said  
2 sources on a display that uses liquid crystal over  
3 semiconductor technology.

1           8.    The method of claim 1 including streaming video  
2 sources for display on said display screen at different  
3 frame rates.

1           9.    The method of claim 1 wherein one of said video  
2 sources includes television programming and the other of  
3 said video sources includes graphical information.

1           10.   The method of claim 1 including streaming a first  
2 video source that includes television programming  
3 information and a second video source that includes an  
4 electronic programming guide information.

1 *Sub a17* 11.   A system comprising:  
2           a processor;  
3           storage coupled to said processor;  
4           a video controller coupled to said processor;  
5           a packetization device coupled to said video  
6 controller which independently packetizes at least two  
7 ~~video streams.~~

1           12. The system of claim 11 including a modulation  
2 device to modulate and transport said independently  
3 packetized streams.

1           13. The system of claim 11 wherein each of said video  
2 streams has a different frame rate and is packetized to be  
3 de-packetized at the original frame rate in a display  
4 device.

1           14. An article comprising a medium storing  
2 instructions that cause a processor-based system to:  
3               receive two independent video sources; and  
4               packetize each of said video sources so that they  
5 may be displayed in separate regions of a display screen.

1           15. The article of claim 14 further storing  
2 instructions that cause a processor-based system to  
3 transmit said video sources from said processor-based  
4 system to a display device including a display screen.

1           16. The article of claim 15 further storing  
2 instructions that cause the processor-based system to  
3 transmit said video sources over a wireless connection  
4 between said processor-based system and said display  
5 device.

1           17. The article of claim 16 further storing  
2 instructions that cause the processor-based system to  
3 transmit said video sources for display on said display  
4 screen at different frame rates.

1           18. A system comprising:  
2               a semiconductor substrate;  
3               a liquid crystal over semiconductor pixel array  
4 formed in said substrate;  
5               a memory coupled to said array, said memory also  
6 formed in said substrate; and  
7               a device for receiving a signal made up of a  
8 plurality of independent video sources and driving each of  
9 said video sources for display on a different portion of  
10 said pixel array.

1           19. The system of claim 18 wherein said system  
2 includes a device that de-packetizes said signal to form  
3 independent video sources for display on said pixel array.

1           20. The system of claim 19 wherein said pixel array  
2 includes a plurality of pixels including a memory cell.

1           21. The system of claim 20 wherein said memory cells  
2 are static random access memory cells.

1           22. The system of claim 19 wherein said pixel array  
2 is coupled to said memory by a digital to analog converter.

1           23. The system of claim 19 wherein said memory  
2 includes a cell associated with each of a plurality of  
3 pixels of said pixel array.

1           24. A system comprising:  
2               an imaging device having a plurality of imaging  
3 elements;  
4               a memory that receives and stores at least two  
5 independent video sources; and  
6               a controller that drives said video sources onto  
7 separate portions of said imaging device.

1           25. The system of claim 24 wherein said imaging  
2 device is a thin film transistor imaging device.

1           26. The system of claim 24 wherein said imaging  
2 device is a cathode ray tube.

1           27. The system of claim 24 wherein said imaging  
2 device uses liquid crystal over semiconductor technology.

1           28. The system of claim 24 including a device to  
2 receive packetized video information, de-packetize said

- 3 information and provide said de-packetized information to
- 4 said memory as independent video sources.